

SEQUENCE LISTING

<110> Nelsetuen, Gary L.

<120> MODIFIED VITAMIN K-DEPENDENT
POLYPEPTIDES

<130> 09531-016001

<150> 09/302,239

<151> 1999-04-29

<150> 08/955,636

<151> 1997-10-23

<160> 21

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> MOD_RES

<222> (0)...(0)

<223> Xaa=gamma carboxyglutamic acid or glutamic acid

<400> 1

Ala	Asn	Ser	Phe	Leu	Xaa	Xaa	Leu	Arg	His	Ser	Ser	Leu	Xaa	Arg	Xaa
1				5					10					15	
Cys	Ile	Xaa	Xaa	Ile	Cys	Asp	Phe	Xaa	Xaa	Ala	Lys	Xaa	Ile	Phe	Gln
	20							25					30		
Asn	Val	Asp	Asp	Thr	Leu	Ala	Phe	Trp	Ser	Lys	His				
	35						40								

<210> 2

<211> 44

<212> PRT

<213> Bos taurus

<220>

<221> MOD_RES

<222> (0)...(0)

<223> Xaa=gamma carboxyglutamic acid or glutamic acid

<400> 2

Ala	Asn	Ser	Phe	Leu	Xaa	Xaa	Leu	Arg	Pro	Gly	Asn	Val	Xaa	Arg	Xaa
1				5					10					15	
Cys	Ser	Xaa	Xaa	Val	Cys	Xaa	Phe	Xaa	Xaa	Ala	Arg	Xaa	Ile	Phe	Gln
		20						25					30		
Asn	Thr	Xaa	Asp	Thr	Met	Ala	Phe	Trp	Ser	Phe	Tyr				
	35						40								

<210> 3
 <211> 44
 <212> PRT
 <213> Homo sapiens

<220>
 <221> MOD_RES
 <222> (0)...(0)
 <223> Xaa=gamma carboxyglutamic acid or glutamic acid

<400> 3
 Ala Asn Ala Phe Leu Xaa Xaa Leu Arg Pro Gly Ser Leu Xaa Arg Xaa
 1 5 10 15
 Cys Lys Xaa Xaa Gln Cys Ser Phe Xaa Xaa Ala Arg Xaa Ile Phe Lys
 20 25 30
 Asp Ala Xaa Arg Thr Lys Leu Phe Trp Ile Ser Tyr
 35 40

<210> 4
 <211> 44
 <212> PRT
 <213> Bos taurus

<220>
 <221> MOD_RES
 <222> (0)...(0)
 <223> Xaa=gamma carboxyglutamic acid or glutamic acid

<400> 4
 Ala Asn Gly Phe Leu Xaa Xaa Leu Arg Pro Gly Ser Leu Xaa Arg Xaa
 1 5 10 15
 Cys Arg Xaa Xaa Leu Cys Ser Phe Xaa Xaa Ala His Xaa Ile Phe Arg
 20 25 30
 Asn Xaa Xaa Arg Thr Arg Gln Phe Trp Val Ser Tyr
 35 40

<210> 5
 <211> 45
 <212> PRT
 <213> Homo sapiens

<220>
 <221> MOD_RES
 <222> (0)...(0)
 <223> Xaa=gamma carboxyglutamic acid or glutamic acid

<400> 5
 Tyr Asn Ser Gly Lys Leu Xaa Xaa Phe Val Gln Gly Asn Leu Xaa Arg
 1 5 10 15
 Xaa Cys Met Xaa Xaa Lys Cys Ser Phe Xaa Xaa Ala Arg Xaa Val Phe
 20 25 30
 Xaa Asn Thr Xaa Arg Thr Thr Xaa Phe Trp Lys Gln Tyr
 35 40 45

<210> 6
 <211> 46
 <212> PRT
 <213> Bos taurus

<220>
 <221> MOD_RES
 <222> (0)...(0)
 <223> Xaa=gamma carboxyglutamic acid or glutamic acid

<400> 6
 Tyr Asn Ser Gly Lys Leu Xaa Xaa Phe Val Gln Gly Asn Leu Xaa Arg
 1 5 10 15
 Xaa Cys Met Xaa Xaa Lys Cys Ser Phe Xaa Xaa Ala Arg Xaa Val Phe
 20 25 30
 Xaa Asn Thr Xaa Lys Arg Thr Thr Xaa Phe Trp Lys Gln Tyr
 35 40 45

<210> 7
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Protein C mutagenic oligonucleotide

<400> 7
 aaattaatac gactcactat agggagaccc aagctt 36

<210> 8
 <211> 42
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Protein C mutagenic oligonucleotide

<400> 8
 gcactcccg cccaggctgc tgggacggag ctctccagg aa 42

<210> 9
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Protein C mutagenic oligonucleotide

<400> 9
 acgctccacg ttgccgtgcc gcagtcctc taggaa 36

<210> 10
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Protein C mutagenic oligonucleotide

<400> 10

ttcctagagg agctgctggca cggcaacgtg gagcgt

36

<210> 11

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Protein C mutagenic oligonucleotide

<400> 11

gcatttaggt gacactatag aatagggccc tctaga

36

<210> 12

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Protein C mutagenic oligonucleotide

<400> 12

gaaggccatt gtgtcttccg tgtcttcgaa aatctcccga gc

42

<210> 13

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Protein C mutagenic oligonucleotide

<400> 13

cagtgtgtca tccacatctt cgaaaatttc cttggc

36

<210> 14

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Protein C mutagenic oligonucleotide

<400> 14

gccaaaggaaa ttttcgaaga tgtggatgac aactg

36

<210> 15

<211> 36

<212> DNA

<213> Artificial Sequence

<220>
<223> Protein C mutagenic oligonucleotide

<400> 15
cagtgtgtca tccacatttt cgaaaatttc cttggc

36

<210> 16
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Protein C mutagenic oligonucleotide

<400> 16
gccaaaggaaa ttttcgaaaa tgtggatgac acactg

36

<210> 17
<211> 45
<212> PRT
<213> Bos taurus

<220>
<221> MOD_RES
<222> (0)...(0)
<223> Xaa=gamma carboxyglutamic acid or glutamic acid

<400> 17
Ala Asn Lys Gly Phe Leu Xaa Xaa Val Arg Lys Gly Asn Leu Xaa Arg
1 5 10 15
Xaa Cys Leu Xaa Xaa Pro Cys Ser Arg Xaa Xaa Ala Phe Xaa Ala Leu
20 25 30
Xaa Ser Leu Ser Ala Thr Asp Ala Phe Trp Ala Lys Tyr
35 40 45

<210> 18
<211> 44
<212> PRT
<213> Bos taurus

<220>
<221> MOD_RES
<222> (0)...(0)
<223> Xaa=carboxyglutamic acid or glutamic acid

<400> 18
Ala Asn Ser Phe Leu Xaa Xaa Val Lys Gln Gly Asn Leu Xaa Arg Xaa
1 5 10 15
Cys Leu Xaa Xaa Ala Cys Ser Leu Xaa Xaa Ala Arg Xaa Val Phe Xaa
20 25 30
Asp Ala Xaa Gln Thr Asp Xaa Phe Trp Ser Lys Tyr
35 40

<210> 19

<211> 44
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> MOD_RES
 <222> (0)...(0)
 <223> Xaa=carboxyglutamic acid or glutamic acid

<400> 19
 Ala Asn Ser Leu Leu Xaa Xaa Thr Lys Gln Gly Asn Leu Xaa Arg Xaa
 1 5 10 15
 Cys Ile Xaa Xaa Leu Cys Asn Lys Xaa Xaa Ala Arg Xaa Val Phe Xaa
 20 25 30
 Asn Asp Pro Xaa Thr Asp Tyr Phe Tyr Pro Lys Tyr
 35 40

<210> 20
 <211> 45
 <212> PRT
 <213> Homo sapiens

<220>
 <221> MOD_RES
 <222> (0)...(0)
 <223> Xaa=carboxyglutamic acid or glutamic acid

<400> 20
 Ala Gly Ser Tyr Leu Leu Xaa Xaa Leu Phe Xaa Gly Asn Leu Xaa Lys
 1 5 10 15
 Xaa Cys Tyr Xaa Xaa Ile Cys Val Tyr Xaa Xaa Ala Arg Xaa Val Phe
 20 25 30
 Xaa Asn Xaa Val Val Thr Asp Xaa Phe Trp Arg Arg Tyr
 35 40 45

<210> 21
 <211> 45
 <212> PRT
 <213> Bos taurus

<220>
 <221> MOD_RES
 <222> (0)...(0)
 <223> Xaa=carboxyglutamic acid or glutamic acid

<400> 21
 Ala Gly Ser Tyr Leu Leu Xaa Xaa Leu Phe Xaa Gly His Leu Xaa Lys
 1 5 10 15
 Lys Cys Trp Xaa Xaa Ile Cys Val Tyr Xaa Xaa Ala Arg Xaa Val Phe
 20 25 30
 Xaa Asp Asp Xaa Thr Thr Asp Xaa Phe Trp Arg Thr Tyr
 35 40 45